

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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Business School Receives International Education Grant

The U.S. Department of Education has awarded a three-year \$720,000 grant to the College of Business and Management to establish a national Center of International Business Education and Research (CIBER). The business school was one of 11 institutions chosen out of more than 60 applicants (including Georgetown University, as well as a consortium of Virginia universities). There are 16 CIBERs nationwide.

A major focus of CIBER is to increase the interaction between the study and the practice of international activities by both business and government. Conferences, seminars, workshops and other programs will be used to identify needed areas of training and research, as well as to share information on new developments and research findings. In addition, CIBER will publish a newsletter containing information on its activities and news from other national centers around the country.

Business professor Lee E. Preston is the director of the Maryland

CIBER. He is assisted by an advisory council chaired by business school Dean Rudolph P. Lamone and including representatives of the university, state government, and members of the national and international business communities.

"Today, all business is international," says Lamone. "Giant multinational corporations, many of them linked to each other through joint ventures and agreements, operate throughout the world. And even very small firms make export sales and confront foreign competition in their home markets. I believe Maryland's CIBER will be a major contributor to international business education and research."

The CIBER grant is the third largest received by the College of Business and Management in support of its international programs. In 1988, the college was awarded a two-year \$130,000 grant for work in international marketing and transportation, and last spring received a two-year \$100,000 grant (shared with the College of Arts and Humanities) to establish an under-



Lee Preston is the director of the College of Business' Center for Business Education and Research.

graduate major in international business and foreign languages. The new major, with an emphasis on Spanish language and culture, is available this semester. Additional languages will be added to the major over time.

Mercy Coogan

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Parking: Enough for Now, but Future Shortage Likely

Users of the College Park parking system will find adequate parking and modest fee increases—for now, parking officials say.

But, as campus building projects continue to swallow up existing spaces, the university may soon need to construct a new parking garage—possibly accompanied by dramatic fee increases.

Highlighting university concerns about parking, a blue ribbon committee, appointed by President William E. Kirwan and chaired by Burt Leete, associate dean of business and management, will study and make recommendations on a variety of parking issues this fall.

"As always, parking will be tight the first couple weeks of classes when an unusual number of people are on campus, registering and that kind of thing," says Leonard Jankowski, director of the Department of Campus Parking (DCP). "We were able to add a temporary lot for students and some spaces in existing lots. Some of the spaces may not be as convenient as people would like, but in terms of numbers, we're in good shape."

Jankowski and associate director David Allen say that the parking system will not suffer a decline in parking spaces during this academic year as it did last year when nearly 1,000 spaces were lost to

major construction projects such as the new College of Business and Management and School of Public Affairs buildings, two surge buildings and the A.V. Williams Building expansion.

At the beginning of the 1989 fall semester, the campus had 16,224 spaces compared with 15,468 currently. No major losses in space are anticipated this year and, moreover, nearly 300 spaces will be added to the system this spring for the new administrative support building on Paint Branch Drive.

The biggest problems for system users will be inconvenience caused by shifts in availability, Jankowski says. Many student permit holders have been moved from construction sites in Lot 1 to Lot 4. Faculty and staff permit holders will no longer be able to use Lot 11 as an overflow lot because of space reductions there.

In 1991-92 and beyond, however, the problems promise to become more severe when major building projects such as a new plant sciences building will be constructed in existing parking lots. Enough spaces would be lost to shrink the amount of parking to unacceptable levels, Allen says.

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Leonard Jankowski

Published Women's Luncheon Series Begins Fifth Year

The College Park Branch of the American Association of University Women and the Maryland University Club have announced the schedule of the fifth season of their popular Friday noon luncheon series held at the Rossborough Inn. Speakers this year will be: Margaret Palmer, Sept. 14; Jane Donawerth, Oct. 12; Deborah Rosenfelt, Nov. 9; Gladys Marie Fry, Feb. 8; Carol Robertson, March 8; and Rhonda Williams, April 12. The luncheons are open to everyone; reservations (\$9) are needed for each program. Call Vonnie Franda at 504-8013 for information or to make a reservation for the Sept. 14 luncheon.

Committee to Study Parking Issues



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"Eventually those spaces will need to be replaced to meet the parking needs of the campus," he says.

Replacing those spaces likely will necessitate construction of a

third parking garage, Allen says.

At \$7,000 per space, the cost of constructing a garage is more than three times greater than a surface lot. Garages, however, are the preferred method for adding parking spaces on a campus where the amount of open space is dwindling.

Because the DCP is a self-supporting unit—one funded entirely by revenue from fees, fines and meters—users of the parking system would fund the entire \$2.9 million in estimated annual costs that would result from building a third garage. The parking system receives no compensation when parking lots are used at the sites for new or expanded buildings.

Thus, the 1990-91 increase in parking fees for faculty and staff from \$80 to \$86, is small change compared to increases that might be needed in the future. Further increases as large as \$100 per permit holder might be needed to finance construction of a new garage, Allen says.

Proposals for funding a new garage—and changing the fee structure for parking—are among the issues the blue-ribbon committee will review.

First on the committee's agenda, however, are proposals to adopt a new system for dealing with visitor parking. A change in the system could result in new charges to visitors for parking in university lots.

Consultants from the parking departments at six universities visited College Park during the summer to help the committee develop proposals for dealing with visitor parking. The committee will hold public hearings on the issue this fall, Leete says.

The DCP will work closely with departmental parking coordinators to make sure departments are aware of how to make parking available to visitors, Jankowski says.

Brian Busek

Do you have any opinions on this subject? How about a letter to the editor.

Maryland Data and Modeling Project Launched

The Department of Economics and INFORUM, the Interindustry Forecasting Project at the University of Maryland, have launched a state forecasting and data service for Maryland.

One of the project's primary goals is to establish a data-base for the state of Maryland that is readily accessible and complete and that

can be used by the academic, government and business community. Another goal is to build an econometric model of Maryland that can be used to be used for forecasting and policy analysis.

The data base being constructed will contain gross state product by industry, employment and payroll by industry by county, employment, hours and earnings, by industry for the state and Standard Metropolitan Statistical Areas. It also will include personal income

by industry, population, per capita income by county, as well as other information.

Economics department chair Mahlon Straszheim says he hopes to produce regular quarterly forecasts of the Maryland economy with both state-level and county-level detail on employment and income.

The data banks are being created on "G" software. This makes it possible to access large amounts of data easily and to distribute the data on diskette or via telephone modem hook-up. The data can be presented graphically or in tables and can be transferred to other software packages such as spreadsheets.

Maryland Faculty at ACS National Meeting

Five Maryland faculty members presented research papers during the 200th meeting of the American Chemical Society in Washington, D.C. last month.

Glen E. Gordon spoke on "Nuclear Chemistry for Non-traditional Audiences" and discussed courses the university has developed on the subject for non-chemistry undergraduate students.

Historian Mary K. Matossian discussed her research on the "Possible Effect of Zinc Deficiency on European Fertility Decline in the 19th Century."

"C-Glycoside Synthesis Utilizing Glycosylmanganese Pentacarbonyl Complexes," a paper discussing new methods for synthesizing carbohydrate compounds, was delivered by Philip R. DeShong, associate professor of chemistry.

James W. Herndon, assistant professor of chemistry, reported on his research on "A Synthetic Approach to Cephalotaxine Based on Chromium Carbene Complexes," a simplified method for synthesizing various compounds.

Bryan W. Eichhorn, assistant professor of chemistry, discussed his research involving the search for new superconducting materials analogous to copper oxide superconductors.

Knight Center to Offer Teleconference Course on Health Care

A new approach to providing professional journalists with timely information on complex subjects will be launched Nov. 27 by the Knight Center for Specialized Journalism in the College of Journalism.

During a special four-hour teleconference, reporters and editors around the country will be able to question experts during their presentations on the rising cost of health care. The seminar will provide leads on information sources and regional story ideas.

The November seminar will be transmitted via the National Instructional Television Network from a studio-classroom at College Park at 12 noon.

Nearly 200 journalists have received fellowships from the center's one-week and two-week courses on economic, scientific and medical subjects at College Park. "Those courses will still be offered, but the November program will enable us to test the effectiveness of teleconferences for brief sessions," says Howard Bray, center director.

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor *Outlook*, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Maryland's Solar Car Headed for the Land Down Under

The Pride of Maryland, a sleek, sun-powered transcontinental race car designed, built and driven by a team of College Park students, soon will be on its way to Australia.

The car qualified for the trip by finishing a convincing third place overall in the 1,641-mile GM Sunrayce USA, an 11-day race from Florida to Michigan that ended July 19.

The race, which featured solar-powered vehicles from 32 colleges and universities in the U.S., Canada and Puerto Rico, started July 9 at Epcot Center at Lake Buena Vista and ended at the GM Technical Center at Warren, Michigan. It was sponsored by the General Motors Corp., the U.S. Department of Energy and the Society of Automotive Engineers.

The University of Michigan's Sunrunner captured first place in the Sunrayce with an elapsed time of 72 hours, 50 minutes, 47 seconds. It was followed by the Viking XX, a car built by students at Western Washington University in Bellingham. Elapsed time for the Pride of Maryland was 80 hours, 10 minutes and 55 seconds.

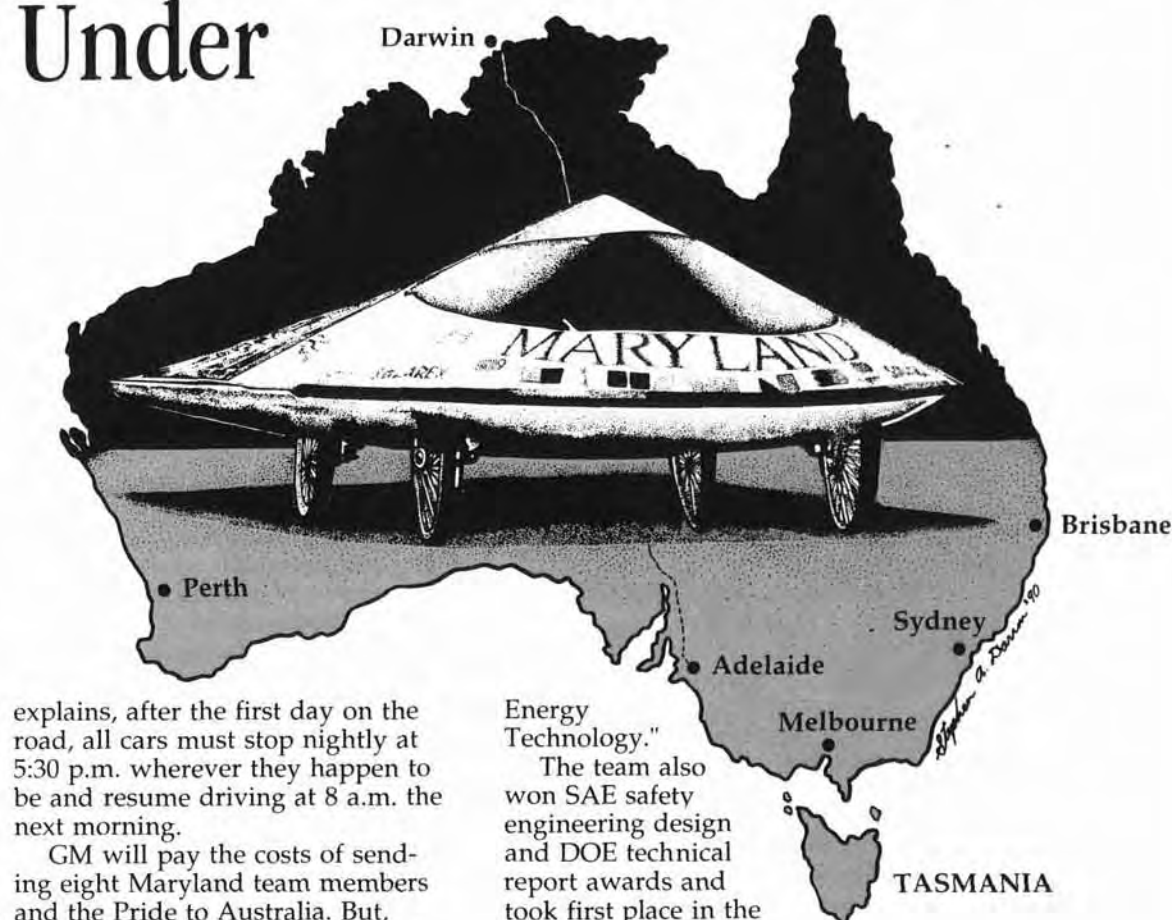
The Maryland car beat entries from California State Polytechnic University, Massachusetts Institute of Technology, Stanford University, Virginia Polytechnic Institute & State University and the Universities of Pennsylvania and Texas, among others.

GM is sending the top three Sunrayce finishers to the World Solar Challenge, a 1,900-mile race across the Australian outback from Darwin to Adelaide. The international race has 43 entrants from several large corporations including Honda R&D Co., Ltd. and the Hoxan Corp. of Japan, as well as schools and organizations in England, New Zealand, West Germany, Nigeria, Canada, the U.S. and Australia, and even several high schools. The green flag starting the Australia race will be waved on November 11.

According to David Holloway, professor of mechanical engineering and the College Park team faculty advisor, the winning car will probably take five to six days at speeds averaging 40 to 45 mph to complete the race.

"There will be more predictable sun conditions, flatter terrain, and a lot less traffic to worry about," he says. "In fact there is only one stop light on the entire route." Heavy rains, high winds and overcast skies during part of the Sunrayce plagued cars and may have prevented Maryland from taking first place.

And, unlike the Florida to Michigan race, the Solar Challenge is not a staged race with staggered starts for each car each day determined by their elapsed time of the previous day. Instead, Holloway



explains, after the first day on the road, all cars must stop nightly at 5:30 p.m. wherever they happen to be and resume driving at 8 a.m. the next morning.

GM will pay the costs of sending eight Maryland team members and the Pride to Australia. But, Holloway says, he wants to take a team of 12 to 15 members and is seeking additional sponsorship and funding support for the trip.

The Maryland car will be shipped to Australia by air in mid October; the team's support vehicle and other gear and equipment will depart by sea September 15.

The Pride of Maryland—a project that involved a team of 50 students majoring in mechanical, electrical and aerospace engineering, computer science, and meteorology for more than a year—took first place in qualifying trials at the Daytona Speedway and was the first car across the GM Sunrayce starting line. Maryland won the Governor of Florida's Energy Award in "Recognition of Dedication to Improving and Promoting Solar

Energy Technology."

The team also won SAE safety engineering design and DOE technical report awards and took first place in the Indianapolis Motor Speedway lap race.

The Maryland team won the first place award for Engineering Excellence presented by *Popular Science* magazine and a check for \$2,000. It also had the best times on five of the eleven days of the race.

Engineering Dean George Dieter was at the Warren, Michigan finish line to greet the Maryland car and team. "Their success demonstrates what we have always known: that students from the University of Maryland at College Park can compete successfully with the best engineering schools in the country. The college is very proud of them."

Tom Otwell

Maryland Teleconference Links Soviet Political Leaders and American Women

The University of Maryland at College Park made history June 16 when the first-ever teleconference between women political leaders from the United States and the Soviet Union took place at College Park.

The teleconference was part of the university's third annual Evolutionary Leadership Program for Women Political Leaders. The conference was co-sponsored by the university's Center for Political Leadership and Participation and the Office of US-USSR Academic Joint Ventures.

The focus of this year's conference was the role of women leaders in the Soviet Union and the emerging democracies in Eastern Europe.

Teleconference activities at the Moscow site were coordinated by Senator Klara Hallik, a Deputy of

the Supreme Soviet from Estonia and a member of President Mikhail Gorbachev's Committee on Inter-Ethnic Policy. Congresswoman Connie A. Morella (R-Maryland) hosted the United States conference link.

An international computer network provided women from around the globe with the opportunity via home and office computers to enter into ongoing dialogue on issues of importance in their home.

"As we enter a new decade with the promise of peace, I think there will be a trend of more women political leaders, because women are seen as more rational, caring and trustworthy. This conference is a reflection of that trend," says Georgia Sorenson, director of the university's Center for Political Leadership and Participation.

Alumni Association President Has Found Success "One Step at a Time"



Newly-appointed
Alumni Association
President, Evelyn
Pasteur Valentine

"Anything is possible if you work hard enough at it."

Evelyn Pasteur Valentine, the newly-appointed president of the University of Maryland at College Park Alumni Association, lives what she preaches.

Valentine, the eldest of 15 children, has come a long way from the outer banks of Beaufort, North Carolina to her present life in the Baltimore-Washington area as an accomplished educator and businesswoman.

The 55-year-old Valentine, a proud woman with a warm smile, describes this time in her life as coming "full circle."

For more than 27 1/2 years she worked in the Baltimore City Public Schools, first as a home economics teacher (in 1974 she was selected National Merit Home Economics Teacher of the Year), later as a principal, and finally an administrator in the central office.

While working in the central office, her duties included assisting top management in the development and implementation of the multi-year/strategic plan for the school system.

Now she is retiring. But hardly resting.

This fall she has become an assistant professor with a joint appointment in the College of Education and the Sellinger School of Business-Department of Management and Law at Loyola College. She is also the president of her own consulting business—the Pasteur Center for Strategic Management.

"I have been fortunate enough to have had a variety of experiences," she says. "And I have tried to take advantage of any opportunity that presents itself positively."

Valentine knew early that she would pursue a college education. It was expected of all the Pasteur children.

"We didn't have a choice," she says with a fond smile. "My father didn't have the money to send us, but we had to go."

Her father, who was in the furniture business and was also a politician, had attended college, but never graduated. He expected much more from his own brood of ambitious, eager children.

Soon, a plan was developed. Each time a Pasteur graduated from college, he or she helped put through the next in line. All the Pasteur children received a college education.

"Every sister and brother helped everyone else," says Valentine.

And that requirement was not just confined to bachelor's degrees, but master's and doctorates, as well.

"We're a close bunch," says Valentine, who says the family is still prone to calling a family council to help a sibling decide on a career move or other decision.

Valentine, herself, is the mother of a grown daughter and two adopted sons.

As a teenager Valentine knew that she wanted to attend the University of Maryland at College Park. She had an aunt who lived in the area and would send the young Evelyn newspaper articles on the school.

"Coming to the university was a major dream of mine," she says.

She received her bachelor's degree in Home Economics and General Science in 1955 from North Carolina Central University. But her dream was realized in 1967 when she received her master of science degree in family life and child development in the College of Human Ecology from the university.

Her father, who had recently suffered a stroke, was there to see her receive her master's degree.

"When they asked the parents of the graduates to stand," she recalls, "my husband and younger son helped him to his feet."

After receiving a certificate of advanced study in school management from Loyola College in 1979, Valentine returned to College Park to receive her doctorate in education, policy and planning as a interdisciplinary student in the College of Education and the College of Business and Management and pre-

sent the graduate student commencement address, as well.

"One of the most rewarding aspects of my life has been an opportunity to be part of the university family. And being president of the alumni association to me is the highest honor any student could ever achieve," says Valentine, who also served as president of the University of Maryland Alumni Board-College of Education and is a member of the University of Maryland's Chancellor's Advisory Council.

Valentine, who was also the recipient of a four-year University of Maryland Other Race Fellowship, as well as other awards and honors, says that the "time is right for me right now," as she looks forward to her current duties.

She is a member of several professional organizations, such as the American Management Association, life member of Phi Delta Kappa Educational Organization, and past president of the Maryland Phi Delta Kappa Chapter, as well as area coordinator for 10 colleges and universities in Maryland, Delaware and Washington, D.C.

In summing up her accomplishments, Valentines says, "I just do the best I can with each activity I'm involved in. I take one step at a time."

One very determined step.

Lisa Gregory



Alumni Tent Party New to Homecoming Festivities



The University of Maryland at College Park Alumni Association is establishing a new Homecoming tradition this fall with the first-ever Maryland's Largest Alumni Tent Party on Saturday, Oct. 13.

The event, which will immediately follow the 12 noon Terps vs. Wake Forest football game (approximately 3:30 p.m.), will be held rain or shine in the Denton Field Area.

Admission is \$7.50 in advance and \$10 at the door for adults, \$3.75 for children four through 12 and free admission for children

four and under.

The tent party will include exhibits, music, and food, including foot-long hot dogs with all the trimmings, Italian Sausage, barbecue and a nacho bar. There will also be a cash bar and free soda. Free balloons will also be provided for the kids.

To make reservations (R.S.V.P. by Sept. 28) or for more information, call the UMCP Alumni Association at 405-4678.

Football game tickets must be purchased separately through the Athletic Office.

Theatre Project Receives Additional Grant

A College Park academic project that centers on a parallel study of Shakespearean and Kabuki theater has received a \$220,000 National Endowment for the Humanities grant to continue the program for a third year.

"Theatre East and West" is a project designed to bring enhanced study of Japanese and English culture and literature into high classes. Using parallels between Shakespeare and Kabuki as a focal point, academic co-directors Thomas Rimer, chair of Hebrew and East Asian Languages and Literatures, and Howard Dobin, associate professor of English, work with high school educators in a year-long program that culminates with a trip to Japan.

The program began in 1989 with a two-year, \$336,000 NEH grant. While the first groups of educators have been from Maryland, Virginia and the District of Columbia, the new funding requires that organ-

izers work with a national group of teachers.

"We are delighted to have the opportunity to continue the program," says Adele Seeff, executive director of the Center for Renaissance and Baroque Studies and co-director of the program. Barbara Finkelstein, professor of education and director of the International Center for the Study of Education Policy and Human Values, is the other co-director.

"The people at NEH were quite complimentary of the program. They said it is 'a very powerful concept,'" says Seeff.

The program was organized by the Department of English, the Department of Hebrew and East Asian Languages and Literatures, the Center for Renaissance and Baroque Studies, and the Center for the Study of Education Policy and Human Values.

Brian Busek



The Theatre East/West program introduces high school educators to Japanese culture.

National Public Broadcasting Archives Established at College Park

The National Public Broadcasting Archives, the nation's most comprehensive collection of material on the history of public broadcasting, is being established at the University of Maryland at College Park.

The four major public broadcasting organizations—The Corporation for Public Broadcasting, The Public Broadcasting Service, National Public Radio and the National Association of Public Television Stations—have committed their historical records to the collection. The first of these materials were transferred to the university in June.

In addition to historical records, the archives will contain kinescopes, audio and visual tapes, films and personal papers relating to the development of public broadcasting in the U.S. The archives is jointly sponsored by the university and the Academy for Educational Development of Washington, D.C. The academy's senior project officer Donald R. McNeil, who initiated the project, will direct the collection of the materials.

"With the development of the National Public Broadcasting Archives, the University Libraries will become a national center for the study of the public broadcasting movement," says Joanne Harrar, director of libraries.

"The resources will be important to faculty and students in journalism, radio and television, business and management, communications, sociology, literature, history, music, the arts, economics and many other

fields. In addition, the archives will attract major scholars from around the world. Our archival staff is already receiving numerous inquiries from scholars in the U.S. and Canada," says Harrar.

To commemorate the creation of the archives, corporate, government and public broadcasting leaders visited the university for a June event hosted by President William E. Kirwan. Participants included

■ ■ ■

**The four major public
broadcasting organizations
are contributing materials
to the new National Public
Broadcasting Archives.**

■ ■ ■

Donald Ledwig, president of the Corporation for Public Broadcasting; Bruce Christensen, president of the Public Broadcasting Service; Douglas Bennet, president of National Public Radio; David Brugger, president of the National Association of Public Television Stations;

Don W. Wilson, Archivist of the United States; and Christopher T. Cross, U.S. Assistant Secretary of Education.

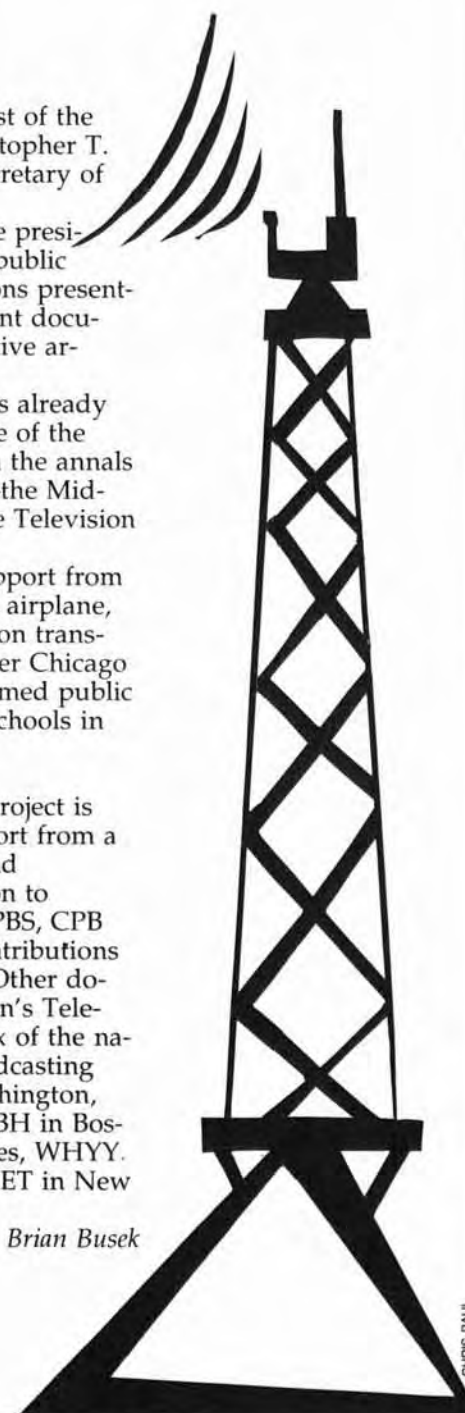
During the event, the presidents of the four major public broadcasting organizations presented Kirwan with important documents from their respective archival files.

Among the collections already on file are records of one of the most unusual projects in the annals of public broadcasting—the Midwest Project on Airborne Television Instruction.

In the 1950s, with support from the Ford Foundation, an airplane, equipped with a television transmitter, was sent aloft over Chicago each day. The plane beamed public television programs to schools in six states.

The National Public Broadcasting Archives project is drawing extensive support from a variety of institutions and organizations. In addition to donating their records, PBS, CPB and NPR made cash contributions to initiate the archives. Other donors include the Children's Television Workshop and six of the nation's major public broadcasting stations—WETA in Washington, WTTW in Chicago, WGBH in Boston, KCET in Los Angeles, WHYY in Philadelphia and WNET in New York.

Brian Busek



CHRIS PAUL

RESEARCH



James L. Heath

Professor Uses Electron Beam Accelerator to Irradiate Poultry

In Early May, the Food and Drug Administration (FDA) approved the use of irradiation on poultry to control Salmonella and other forms of disease-causing bacteria. Irradiation—exposing a product to small doses of radiation—can extend the shelf life of poultry by several weeks under proper refrigeration.

James L. Heath, professor of poultry science, has been conducting research on poultry irradiation techniques since 1987. He says that proper cooking will kill most bacteria in poultry, but irradiation can nearly eliminate infectious bacteria in poultry before the product reaches the consumer.

In his research, Heath uses an electron beam accelerator to penetrate the surface of poultry meat, thereby killing most of the bacteria there. He says this is particularly effective for the elimination of salmonella, which lives near the surface of meat. According to Heath, the electron beam can be activated at the flip of an electrical switch—

similar to operating a microwave oven—and when treatment is complete, there is no lingering residual radiation in the meat.

"This is a good, safe alternative to using gamma rays, the more commonly used irradiation technique," Heath says. "Because the electron beam requires less shielding [than for gamma rays], the working environment for poultry handlers is safer. Also, electron beam accelerators can be installed directly at poultry processing plants, unlike the gamma ray method which would require that poultry be sent to a special irradiation treatment facility."

According to Heath, when gamma rays are used to irradiate poultry, source materials must be lowered into a pit and submerged in water before it is safe for food handlers to enter the area and remove the poultry. The gamma ray technique also requires disposal of the radioactive waste.

Heath says that consumers should begin seeing irradiated pou-

ltry in the stores during the coming year as producers begin test marketing the products. But he believes three to five years of consumer education will be required to gain wide public acceptance for irradiated poultry.

"These techniques are totally safe for the consumer," he says. "Irradiated poultry is not radioactive under the FDA requirements. These techniques will improve food safety by greatly reducing the bacteria found in poultry."

Heath points out that irradiation has long been approved by FDA for insect control in fresh fruits and vegetables, for disinfestation of grains and spices, and for the control of trichina in pork.

According to Heath, the American poultry industry could find their first market for irradiated poultry in several European countries where these products have been approved and accepted for many years.

Fariss Samarrai

Seven Faculty Members Win Presidential Young Investigator Awards

Seven young College Park faculty members, all assistant professors, have won prestigious, five-year National Science Foundation Presidential Young Investigator Awards.

The seven are: Timos Sellis, H. Dieter Rombach, and John Yiannis Aloimonos, all of the Department of Computer Science; Thomas Cohen, Department of Physics and Astronomy; Rinaldo E. Poli, Department of Chemistry and Biochemistry; Frederick N. Skiff, Lab for Plasma Research, and Evangelos Zafiriou, Department of Chemical and Nuclear Engineering and the Systems Research Center.

College Park placed fifth among all universities—public and private—in 1990 PYI awards behind Berkeley, MIT, Illinois, and Wisconsin. Only Berkeley had three computer science faculty award-winners.

The seven bring to 24 the number of Maryland faculty who have received the award since it was established in 1984.

Sellis is a specialist in data base systems, Rombach, an authority in software engineering and program languages, and Aloimonos an authority on computer vision.

Cohen specializes in nuclear theoretical physics. Skiff, who also won a two-year Alfred P. Sloan Re-

search Fellowship this year, is an experimental plasma physicist. Poli is a specialist in organic chemistry, and Zafiriou is an authority on robust process control, non-linear control, and process design and optimization.

Each year, NSF sponsors 200 young investigator awards to fund research by promising college professors who are beginning their careers. The awards can be worth as much as \$100,000 per year for five years. NSF provides an annual base grant of \$25,000 and matches up to \$37,500 per year of gifts from industry.

New Summer Physics Program for 9th Grade Girls Launched

Last July, the Physics Department initiated a two-week program in physics for 28 area girls who are entering the ninth grade this fall.

The free Physics Summer Outreach Program was designed to give them a chance to work directly on some of the most interesting subjects in physics—boiling and freezing, telescopes, taking and developing photographs, rainbows, solar cooking, seeing and hearing around corners, and even the marvels of the new superconductors.

The new program, which ran from 9:30 a.m. to 12:30 p.m. each day, provided the students an opportunity to see how the science of physics works up close. There were no lectures, no examinations and no grades. Each girl, within a small group of five, worked directly with her teacher on the experiment and

subject of the day. The instruction was personalized and informal.

"Our premise is that physics, engineering, and related sciences have always had very low participation on the part of women and minorities," notes Angelo Bardasis, professor of physics and the department's associate chair for academic affairs. "It recognizes that this cannot be solved at the college level, but must be addressed at the elementary or at least the junior high level. The emphasis throughout was 'hands on,' on doing science. The atmosphere was noncompetitive and cooperative. Every girl was encouraged to voice her opinions and to participate to the fullest."

The summer program is being followed by three Saturdays each semester during the regular school year.



Three young participants in summer physics outreach program examine lab equipment.

Kirwan Address and Elections Top Senate Agenda for Sept. 13

The "State of the University" address by President William E. Kirwan and the annual elections of the chair-elect and members of the executive committee will be main items of business at the first meeting of the Campus Senate for the 1990-91 academic year on Thursday, Sept. 13 from 3:30 to 6:30 p.m. in Room 0126, Reckord Armory. Also on the agenda are three committee reports by Earlean McCarrick, Thomas Regan, and Patrick Cunniff. For information about the meeting call 405-5805.

F.Y.I.

Flagship Channel Provides Pictures of University to P.G. and Montgomery Viewers

With two local cable television channels at its disposal (Channel 38-B in Prince George's County and Channel 59 in Montgomery County), the College Park Flagship Station can show whatever part of university life catches a camera's eye.

In recent months, commencement exercises, wrestling matches, lectures on global warming, musical concerts and a call-in show on university admissions have been among the pictures of campus life broadcast live or via video tape to a potential audience of 250,000 cable television viewers in Prince George's and Montgomery counties.

Through cable access channels made available by the governments of the two counties, the station also runs daily graphic features such as calendars of events and university job listings. And in addition to their own productions, station programmers tap into university archives for academically related films produced by other units, broadcast

some student-produced programs such as the university news program, Maryland Update, and use public service programming from off-campus sources such as live feeds from NASA satellites.

"There's a tremendous potential here," says Marjory Small, the university's coordinator of cable television programming. "There's a demand for more programming than we have the resources to provide. There is time available to broadcast 1,100 hours every 16 weeks—that's about twice as much as we do now."

The Academic Media Technology and Telecommunications Advisory Committee oversees the station's operation and provides general guidelines for programming. Chaired by Sue Clabaugh, director of the Educational Technology Center, the committee has designated three primary areas of programming: service, academics and multicultural programs.

The station is run by two full-time staff members, Small, who manages the station and coordinates its fund-raising and educational components, and Kenny Holl, who oversees production.

Each semester 25-30 students from radio, television and film and broadcast journalism, work for the station, seeing the channel as a place to get hands-on training in broadcasting. Small is working to create programs through which students would receive credit for their work with the station.

Broadcasts do not originate directly from the channel's office in the basement of the Benjamin Building. Instead, they are transmitted from the Non-print Media Center in Hornbake Library to the cable system. Consequently, Holl and his staff must transfer most of

a week's programming onto master tapes which are then hand-carried to Hornbake for broadcast. (Live broadcasts are cablecast directly from the site of the event to Hornbake.)

An innovative computer program is used to queue up the tapes so that they run without supervision. The system was developed by Chet Rhodes, Journalism, Jeff Wagner, Non-Print Media, and Chris Schlesliger, an electrical engineering student.

"They did an amazing job," Small says. "If this had been done by a professional consultant it would have cost five times as much and wouldn't have been as well-tailored to our needs."

Brian Busek



The Flagship Channel logo

Programming highlights on the Flagship Channel during Sept.-Nov. include:



- The University of Maryland Chorus' **Antal Dorati Memorial Concert** will be shown at 8 p.m. Sept. 20 and Sept. 27. The concert, conducted by Paul Traver, was held April 9, 1989, as a memorial to Dorati, former conductor of the National Symphony Orchestra.

- Lectures from the 1989-90 **Distinguished Scholar-Teacher Lecture Series** will be shown this week. Each lecture begins at 8 p.m. The presenters are: George Snow, professor of physics (Sept. 10); Wayne Cole, professor of history (Sept. 11); Christopher Davis, professor of electrical engineering (Sept. 12); Joseph Sucher, professor of physics (Sept. 13); and Susan Handelman, associate professor of English (Sept. 14).

- Presentations from the **"Physics is Fun"** lecture series will be shown Oct. 22-25 and 29-31 at 8 p.m. each evening. The lectures, hosted by Richard Berg of the Department of Physics, describe

basic concepts of physics through the use of demonstrations and aim to be entertaining as well as educational and informative.

- Lectures from the **"Science of Global Change"** series will be shown Nov. 5-9 and 19-23 at 8 p.m. each evening. Sponsored by the Department of Meteorology, lectures cover such topics as the greenhouse effect and ozone depletion.

- **"Maryland Update,"** a news magazine show produced by the College of Journalism, will be shown every hour beginning at 6 p.m. on Tuesdays and Thursdays during the fall semester.

- The **"Job Mart,"** a listing of job opportunities at the university, will be shown at 7 a.m. Monday-Friday and 7 a.m., 9 a.m. and 11 a.m. Saturday-Sunday. The listing is presented for 30 minutes during each broadcast.

(Left to Right)
Susan Handelman,
Paul Traver,
Christopher Davis,
George Snow,
Wayne Cole,
Joseph Sucher,
and Richard Berg

CALENDAR

SEPTEMBER 10-19

10

MONDAY

Commuter Affairs Expo, 10 a.m.-3 p.m., West Foyer, Stamp Student Union. Call 4-5275 for info.

Agricultural Seminar: "Present Issues in Agricultural Extension and What Needs to be Done: A World Bank Perspective," featuring William Zip, Agriculture Extension Specialist, noon (bring brown-bag lunch), 0115 Symons Hall. Call 5-1253 for info.

OMSE's Annual Open House, 1-4:30 p.m., 1101 Hornbake Library. Call 5-5616 for info.

Time Management Workshop, 3-4:30 p.m., 2201 Shoemaker Bldg. Call 4-7693 for info.

Computer Science Colloquium: "A Status Report of Parallel Processing Research at Hebrew University," featuring Larry Rudolph, Hebrew U. & IBM T.J. Watson Research Center, reception, 3:30 p.m., 1152 A.V. Bldg., lecture, 4p.m., 0111 Classroom Bldg. Call 5-2661 for info.

University Theatre Open House, 8 p.m., Tawes Fine Arts Bldg. Call 5-2201 for info.

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WEDNESDAY

Astronomy Colloquium: "Observations of Molecular Clouds in the Magellanic Clouds," featuring Marc L. Kutner, Rensselaer Polytechnic Institute, Troy, New York, 4 p.m., 1113 Computer & Space Sciences Bldg, pre-lecture tea, 3:30 p.m., 0254 CSS. Call 5-1524 for info.

Art Gallery Exhibition: "Trouble in Paradise," today-Oct. 26, Gallery Talk by Dana Friis-Hanson, exhibit curator, MIT, today, 4:30 p.m., Opening Reception, 5:30-7:30 p.m., The Art Gallery, Art/Soc Bldg. Call 5-2763 for info.

Center for Minorities in the Behavioral Sciences Open House, 11 a.m.-2 p.m., 2201 LeFrak. Call 5-1708 for info.

Meteorology Seminar: "Simplification of Simple Biosphere Model (SiB) in the Global Climate Study," 3:30 p.m., 2114 Computer and Space Sciences Bldg., refreshments at 3 p.m. Call 5-5392 for info.

Systems Research Center Systems Colloquium: "The End of the Beginning in Computing Emergence and Convergence in the 1990's," Harry Tennant, Texas Instruments, 1100 ITV Bldg. Call 5-6634 for info.

Alumni Association September Supper: "Technology Showcase," wine reception at 6:30 p.m., buffet dinner at 7 p.m., Atrium, Stamp Student Union. Call 5-4678 for info.

Guarneri String Quartet Open Rehearsal, 7 p.m., Tawes Recital Hall. Call 5-5548 for info.

Women's Field Hockey vs. Virginia, 7 p.m., Astroturf Field. Call 4-7064 for info.

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FRIDAY



Stamp Union All-Niter '90: "Cruising Aboard the SS Union," noon today-4 a.m. tomorrow, Stamp Student Union. Call 4-8495 for info.

Women's Studies Annual Forum: "Assembly of the Whole," 3-5 p.m., Maryland Room, Marie-Mount Hall. Call 5-6877 for info.

Maryland University Club Welcome Back Barbeque Buffet, for members and guests, 6:30 p.m., The Rossborough Inn, College Park. Call 4-8015 for info.

Women's Volleyball vs. William & Mary, 7 p.m., Cole Field House. Call 4-7064 for info.

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SATURDAY

UM Football vs. Clemson, noon, (in Baltimore). Call 4-7064 for info.

Women's Field Hockey vs. Temple, 1 p.m., Astroturf Field. Call 4-7064 for info.

Wesley Foundation "Pizza and Video Night," 6 p.m., University United Methodist Church. Call 422-1400 for info.

16

SUNDAY

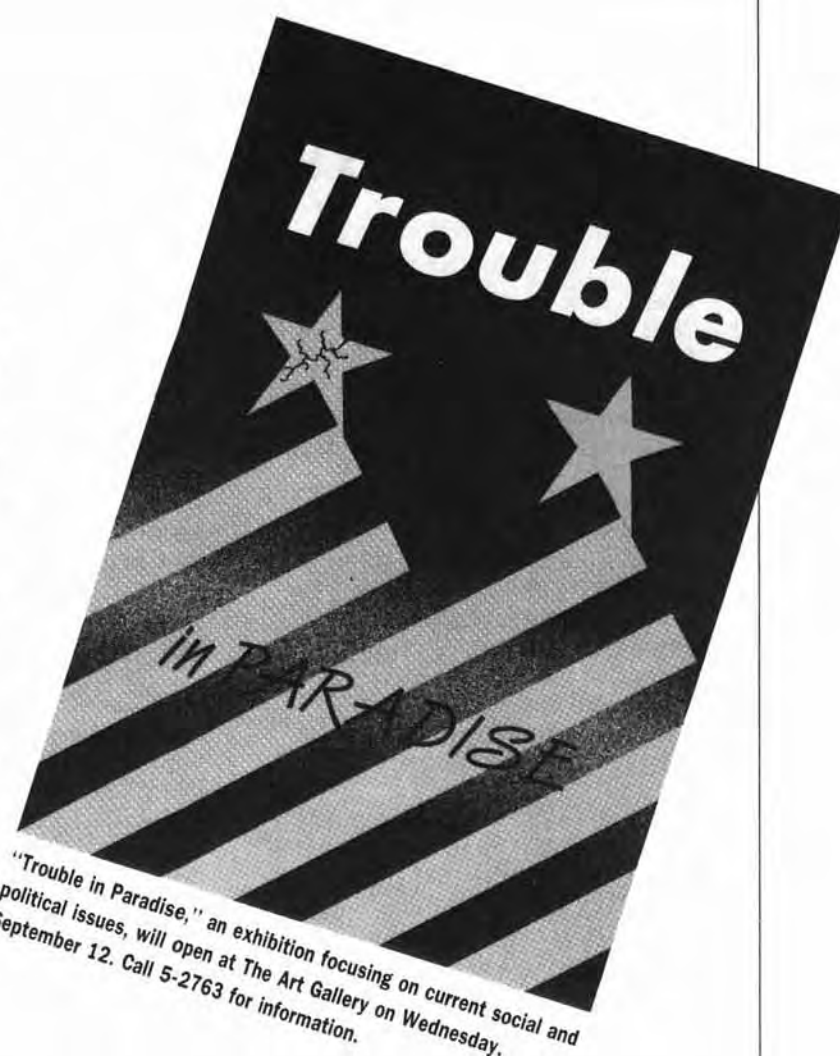
Study Skills Workshop, 3-4:30 p.m., 2201 Shoemaker Bldg. Call 4-7693 for info.

17

MONDAY

Art Gallery Exhibition: "Trouble in Paradise," today-Oct. 26, The Art Gallery, Art/Soc Bldg. Call 5-2763 for info.

Computer Science Colloquium: "Structured Documents: Their Logical Specification and Processing," featuring Allen L. Brown, Jr., Univ. of Syracuse and



"Trouble in Paradise," an exhibition focusing on current social and political issues, will open at The Art Gallery on Wednesday, September 12. Call 5-2763 for information.

19

WEDNESDAY

Counseling Center Research and Development Seminar: "Caseload Trends as Seen by College Park Youth and Family Services," featuring Peggy Higgins, Director, College Park Youth & Family Services, noon-1 p.m., 0106-0114 Shoemaker Bldg. call 4-7691 for info.

Department of Art Minorities & Women Lecture, featuring Marcia Tucker, Founder & Director, The New Museum, 1 p.m., 1309 Art/Soc Bldg. Call 5-1442 for info.

Women's Soccer vs. Radford, 1 p.m., Soccer Field. Call 4-7064 for info.

Men's Soccer vs. American, 3 p.m., Soccer Field. Call 4-7064 for info.

Astronomy Colloquium: "Gamma Ray Astronomy and Gamma Ray Observatory," featuring James Kurfess, U.S. Naval Research Laboratory, Washington, D.C., 4 p.m., 1113 Computer & Space Sciences Bldg, pre-lecture tea, 3:30 p.m., 0254 CSS. Call 5-1524 for info.

Wesley Foundation and United Campus Ministry Open House and Worship, 4-6 p.m., West Lounge, Memorial Chapel. Call 5-8450 for info.

Women's Volleyball vs. William & Mary, 7 p.m., Cole Field House. Call 4-7064 for info.

Architecture Lecture, Anthony Ames, Architect, Atlanta, GA, 7:30 p.m., Architecture Auditorium. Reception and Exhibition to follow lecture. Call 5-6284 for info.

Xerox Webster Research Center, reception, 3:30 p.m., 1152 A.V. Williams Bldg., lecture, 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

Women's Studies Lecture: "Passionate Politics: The Making of a Feminist Movement in Washington D.C., 1967-77," Charlotte Bunch, 8 p.m., 2203 Art/Soc Bldg. Call 5-6877 for info.

Horticulture Seminar: "Production of Alternative Flower Crops in Maryland," Will Healy, 4 p.m., 0128 Holzapfel Hall. Call 5-4360 for info.

Space Science Seminar: "Investigations of Coronal and Chromospheric Processes with Solar Wind Ion Composition," Johannes Geiss, Univ. of Bern, Switzerland, 4:30 p.m., 1113 Computer and Space Sciences Bldg. Call 5-4829 for info.

Indonesian Puppet Theatre, 8 p.m., Pre-concert Seminar, 6:30 p.m., Tawes Recital Hall. Call 4-4240 for info.

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TUESDAY

Nyumburu Cultural Center Open House, 9 a.m.-7 p.m., 3123 South Campus Dining Hall. Call 4-7758 for info.

Meditation Center Open House, 11 a.m.-1 p.m., 2113 Mitchell Bldg. Call 4-8428 for info.

"Fun in the Union," noon-2 p.m., Stamp Student Union. Call 4-8495 for info.

College of Agriculture Welcome Picnic, 3:30-5:30 p.m., south side of Symons Hall. Call 5-4685 for info.

Wesley Foundation Bible Study, 5 p.m., University United Methodist Church. Call 422-1400 for info.

Women's Field Hockey vs. Towson State, 6:30 p.m., Astroturf Field. Call 4-7064 for info.



"The Festival of Indonesia," a puppet theatre from West Java, will entertain with colorful, intricately carved wooden puppets, Monday, September 17 at 8 p.m. Call 403-4240 for information and reservations.

11

TUESDAY

Employee Development Seminar: "Planning Your Career and Your Future," 9 a.m.-4 p.m., 2146 Stamp Student Union. Call 5-5651 for info.

"Fun in the Union," noon-2 p.m., Stamp Student Union. Call 4-8495 for info.

College of Engineering First Look Picnic, 4 p.m., 1202 Engineering Bldg. Call 5-3855 for info.

Women's Soccer vs. Virginia, 4:30 p.m., Soccer Field. Call 4-7064 for info.

Department of Dance Open House/Reception, 5-6:30 p.m., 1115 Temporary Bldg EE. Call 5-3180 for info.

Maryland Sailing Association Informational Meeting, 6:30-7 p.m., Jimenez Hall. Call 589-5643 for info.

Hoff Theatre Movies: "Hairspray" & "House Party." Call 4-HOFF for info.

Meditation Center Open House, 11 a.m.-1 p.m., 2113 Mitchell Bldg. Call 4-8428 for info.

Police Department Open House, 11 a.m.-1 p.m., 1101 Police Station. Call 5-5731 for info.

New Student Celebration, a free picnic lunch for all new students, 11:30 a.m.-1:30 p.m., Engineering Field. Call 5-7484 for info.

Men's Soccer vs. Loyola, 3 p.m., Soccer Field. Call 4-7064 for info.

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THURSDAY

POW/MIA Exposition, 10 a.m.-4 p.m., Tortuga Room/West Foyer, Stamp Student Union. The movies Hanoi Hilton and the Deer Hunter will be shown. Call [ORIENTATION]